

**EXAMINER'S AMENDMENT**

1. Based on the amendment and remarks filed on March 11, 2008, the examiner has proposed to incorporate some changes into the existing claims. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Atty: Douglas Rodriguez on June 05, 2008.

The application has been amended as follows:

Replace claim 1 as following:

1. A multi-layer structure comprising:
    - a substrate; and
    - a transformation layer comprising:
      - a first dielectric layer made from  $\text{ZnS-SiO}_2$  formed on the substrate, and
      - a metal oxide layer overlying the first dielectric layer, the metal oxide layer including a noble metal oxide selected from platinum oxide, silver oxide, palladium oxide, and tungsten oxide;
- wherein a volume of a portion of the transformation layer irradiated by a laser beam spot expands when a temperature of the portion exceeds a predetermined temperature to form a pit pattern on an outermost surface of the multi-layer structure, the pit pattern having a diameter smaller than a diameter of the laser beam spot.

Replace claim 12 as following:

12. The multi-layer structure of claim 1, wherein the metal oxide layer changes volume by releasing oxygen when heated.

In claim 15, change the dependency from claim 13 to claim 1.

In claim 16, change the dependency from claim 13 to claim 1.

Replace claim 28 as following:

28. The multi-layer structure of claim 1, wherein the transformation layer further comprises:

a second dielectric layer overlying the metal oxide layer;  
wherein the second dielectric layer is made from  $\text{ZnS-SiO}_2$ .

Claims 3-11, 13-14, 17-27 and 29-31 have been canceled.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy Lam whose telephone number is (571) 272-1538. The examiner can normally be reached on 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1794

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/Cathy Lam/  
Primary Examiner, Art Unit 1794